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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/673,208	10/13/2000	Nobuaki Hashimoto	107281	3514	
25944 7:	590 09/05/2003				
OLIFF & BERRIDGE, PLC			EXAMINER		
P.O. BOX 1992	28		ZADNEVE	DAVIDA	
ALEXANDRIA	A, VA 22320		ZARNEKE, DAVID A		
			ART UNIT	PAPER NUMBER	
			2827		
			DATE MAILED: 09/05/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			116
- 1	Application No.	Applicant(s)	
	09/673,208	HASHIMOTO, NOBU	IAKI
Office Action Summary	Examiner	Art Unit	
	David A. Zarneke	2827	
The MAILING DATE of this communication a	oppears on the cover sheet	with the correspondence addre	ess
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r  - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by stat  - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the od will apply and will expire SIX (6) MC tute, cause the application to become a	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	nunication.
1) Responsive to communication(s) filed on _	·		
	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice unde	wance except for formal m	• •	merits is
Disposition of Claims			
4)⊠ Claim(s) <u>1-53</u> is/are pending in the applicati			
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)☐ Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-53</u> are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Exami			
10)☐ The drawing(s) filed on is/are: a)☐ ac			
Applicant may not request that any objection to			
11) The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in 12) The oath or declaration is objected to by the	• •		
	LXammer.		
Priority under 35 U.S.C. §§ 119 and 120	inn missibu undas 25 H O O	C 440(a) (d) = (5)	
13) Acknowledgment is made of a claim for fore	igh phonty under 35 0.5.C	. 9 119(a)-(d) or (1).	
a) ☐ All b) ☐ Some * c) ☐ None of:	anda hawa haan waasii wad		
1. Certified copies of the priority docume		Anatinatina Na	
2. Certified copies of the priority docume			
<ul><li>3. Copies of the certified copies of the present of the present of the international application from the International * See the attached detailed Office action for a life</li></ul>	Bureau (PCT Rule 17.2(a))		age
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C	c. § 119(e) (to a provisional a	pplication).
a) ☐ The translation of the foreign language (15)☐ Acknowledgment is made of a claim for dome	• •		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	w Summary (PTO-413) Paper No(s). of Informal Patent Application (PTO-	
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### **DETAILED ACTION**

### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

The product claims 1-27 contain 3 species, namely:

Species 1: Figure 1

Species 2: Figure 8

Species 3: Figure 10.

The method claims 28-53 contain 7 species, namely:

Species 1: Figures 1 and 4

Species 2: Figures 1 and 6

Species 3: Figure 1 and 7A

Species 4: Figures 8 and 4

Species 5: Figures 8 and 6

Species 6: Figures 8 and 7A

Species 7: Figures 8 and 7B

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply

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must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The claims are deemed to correspond to the species listed above in the following manner:

## Product claims:

species 1: claims 1, 4, 7, 10, 13, 16, 19, 22, and 25 species 2: claims 2, 5, 8, 11, 14, 17, 20, 23, and 26 species 3: claims 3, 6, 9, 12, 15, 18, 21, 24, and 27

#### Method claims

Species 1:claims 28, 35, 42

species 2: claims 29, 36, 43, and 49

species 3: claims 30, 37, 44, and 50

species 4: claims 31, 38, and 45

species 5: claims 32, 39, 46, and 51

species 6: claims 33, 40, 47, and 52

species 7: claims 34, 41, 48, and 53

The following claim(s) are generic: no claims are generic.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

Product claims lack the same special technical features in that they each apply the plating layers in different places on the interconnect pattern.

Species 1 puts the 2 platings on opposite sides of the interconnect pattern.

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Species 2 puts 1 plating on a 1<sup>st</sup> interconnect pattern and a 2<sup>nd</sup> plating on a 2<sup>nd</sup> interconnect placed on the opposite side of the substrate from the 1<sup>st</sup> interconnect.

Species 3 puts the 1<sup>st</sup> plating on a 1<sup>st</sup> portion of the exposed side of the interconnect and a 2<sup>nd</sup> plating on a 2<sup>nd</sup> portion on the exposed side of the interconnect.

The method claims lack the same special technical feature in that they use each of the above product species and apply the plating layers using different methods.

Species 1 takes product species 1 and plates using one plating bath and 2 anodes.

Species 2 takes product species 1 and plates using 2 plating baths.

Species 3 takes product species 1 and plates using resists to cover and expose the region to be plated.

Species 4 takes product species 2 and plates using one plating bath and 2 anodes.

Species 5 takes product species 2 and plates using 2 plating baths.

Species 6 takes product species 2 and plates using resists to cover and expose the region to be plated.

Species 7 takes product species 3 and plates using resists to cover and expose the region to be plated.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication should be directed to examiner David A. Zarneke at (703)-305-3926. The examiner can be reached on M-F 10AM-6PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (703)-308-1233. The fax phone number is assigned is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist at (703)-305-3900.

David A. Zarneke

September 2, 2003